

Calculation of Losses in the Sliding Contacts of
Electric Machinery, by P. S. Livshits, 9 pp.

RUSSIAN, per, Elektrichestvo, No 12, 1958, pp 55-58.

PP

Sci

Feb 61

Popkov, V. I. and Bogdanova, N. B.

METHOD FOR ESTIMATING ANNUAL CORONA LOSSES
[1961] [18]p. 8 refs. C. E. Trans. 1721; [DSIR LLJ]
M. 3046.

Order from OTS or SLA \$1.60

61-27563

Trans. of *Elektrichstvo* (USSR) 1959, no. 1, p. 9-16.

DESCRIPTORS: *Electrical corona, Test methods,
*Transmission lines, Meteorology.

(Engineering--Electrical, TT, v. 6, no. 9)

61-27563

I. Popkov, V. I.

II. Bogdanova, N. B.

III. CE Trans-1721

IV. DSIR LLJ M. 3046

V. Central Electricity

Generating Board (Gt. Brit.)

165594

Office of Technical Services

Methods of Estimating Annual Coronal Losses, by
V. I. Popkov, N. B. Bogdanova.

RUSSIAN, per, Elektrichestvo, No 1, 1959, pp 9-16.

NLL M. 3046

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Feb 62

186,913

Lyapunov's General Theory of Stability and
Questions of Power Stability, by L. V. Tsukernik.

RUSSIAN, per, Elektrichestvo, No 1, 1959, pp 13-17.

ILL M. 3460

Sci - Phys

Apr 62

194,038

Automatic Control of Frequency and Active
Loads on Power Systems, by V. N. Gornosteyn. (1959)

PERIODIC, per, Elektrichestvo, No 1, 1959,
pp 25-29.

DSIK LII (loan) H.521

Sci - Electron
Nov 59

109,737

Magnetic Noise in Universal Commutator Micro-
motors, by N. V. Astakhov. UNCL

RUSSIAN, per, Elektrichestvo, No 2, 1959,
pp 41-45.

DSIR LLU RTS 1466

(12a. 6a.)

Sci - Electricity
Apr 60

113,024

Junction-Type Silicon Diodes, by G. A.
Zollikman, et al. UNCL

RUSSIAN, per, Elektrichestvo, No 1, 1959,
pp 64-65.

DSIR MJU RTS 1171

Sci - Electron
Oct 59

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A High-Power Germanium Transistor, by A. V.
Krasilov. UACI.

KRASILOV, per, Elektrichestvo, No 1, 1959,
pp 72-75.

SLA 54-2172

DSIR LLD RUS 1172

Dr. Komarovskiy, per, Elektrichestvo, No 1, 1959,
(10a. Od.)

Sci. - Electricity
Nov 59

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Converting Existing Power Transmission Lines to
Operate At Higher Voltage, by V. V. Burgdorf,
N. N. Balyakov.

Moscow,
RUSSIAN, per, Elektrichestvo, No 2, 1959, pp. 1-5.

FIID/Transportation Communications,
and Electric Power in the USSR,
No 19.

USSR
Econ
Aug 59

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Flashover Voltages Across Wide Air Gaps
Approximating to Overhead Line and
Subspacings, by N. N. Tikhonov,
A. N. Tushnov.

RUSSIAN, per, Elektrichestvo, No 2,
1959, pp 6-10.

ML M.4011

61-2724

Sci Electricity

Feb 62

186.593

Investigation of Self-Excitation in D.C. Traction
Motors, by V. E. Skobelev.

RUSSIAN, per, Elektrichestvo, No 2, 1959,
pp 30-35.

DSIR LIJ M.1673
(loan)

Sci - Electricity, Engr

Oct 60

128,887

A New Method of Determining the Moisture of
the Insulation of Transformer Windings, by
B. A. Alekseyev.

RUSSIAN, per, Elektrichestvo, No 2,
1959, pp 58-63.

CSTRO

Sci - Electron
Jul 62

207,600

Investigation on Impulse Breakdown of Some
Polymers and Hfca, by M. A. Mal'nikov. URSR.

RUSSIAN, per, Elektrichestvo, No 2, 1959,
pp 64-66.

DSIR LUU M.930

(loan)

Sci - Electron

Mar 60

111,123

Magnetodielectrics, by L. I. Rabitsin, 14 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1959, pp 78-84

NEIC NCL-178/1

Sci - Electronics
Dec 60

134,559

Vasyutinskiy, S. B., Nagayenko, G. P., and
Fedorishin, M. I.
SCREENING OF STEEL MASSES OF A VIBRATION
STAND FROM AN A. C. MAGNETIC FIELD
(Ekranirovaniye Stal'nykh Massivov Vibrostenda ot
Peremennogo Magnitnogo Polya). Feb 61 [16]p. 3 refs.
RTS 1730.
Order from LC or SLA ml\$2.40, pb\$3.30 61-15933
Trans. of Elektrichestvo (USSR) 1959, no. 3,
p. 37-41.

(Engineering--Electrical, TT, v. 5, no. 10)

61-15933

1. Electromagnetic
equipment--Shielding
2. Magnetic fields--
Countermeasures
- I. Vasyutinskiy, S. B.
- II. Nagayenko, G. P.
- III. Fedorishin, M. I.
- IV. RTS-1730
- V. Department of Scientific
and Industrial Research
(Oz. Brk.)

160942

Office of Technical Services

(DC-3696)

Stepan Artem'yevich Burguchev, by V. N. Andrianov,
I. A. Eudzko, N. A. Sazonov, P. F. Sivortsev, 2 pp

RUSSIAN, per, Elektrichestvo, No 3, 1952, p 96.

JPRS 3846

USSR
Biog
Sep 60

New Stage of Electrification in USSR, by V. I.
Veyts, V. I. Denisov, (transpor, comm and
elec power in the USSR -- 18).

per,
RUSSIAN: Elektrichestvo, No 4, Moscow, 1959,
pp 1-8.

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Econ - trans, comm, electric power

Jul 59

92, 944

Currents and Voltages During Single-Phase Short-
Circuit in Networks With Auto-Transformers, by
B. I. Rozenberg.

RUSSIAN, per, Elektrichestvo, No 4, 1959,
pp 31-37.

DSIR LIU M.1676
(loan)

Sci - Electricity

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Oct 60

Calculation of Transient Phenomena in Complex Three-
Phase Circuits Containing Rotating Machines, by O. V.
Mamontov.

RUSSIAN, per, Elektrichestvo, No 5, 1959, pp 5-9.

DSIR LLJ M.1799
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Sci - Electricity

128,893

Oct 60

Designing Magnetic Amplifiers which Work into an
rl Load Through Rectifiers, by A. G. Zdrok.

RUSSIAN, per, Elektrichestvo, No 5, May 1959, pp
25-31.

Internatl. Physical Index
Automation Express
Vol II, No 1

Sci

Aug 59

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Self-Excited Oscillations on the Federal Spectrum of
D.C. and A.C. Lines, by S. R. Kuznetsov. GZOL

RUSSTAF, part, Elektricheskoye, No 3, 1961,
pp 24-25.

DSIR 1111 111111

(Don)

DSIR 1111 1111

Sol - Electron (Electron)
Feb 60

108, 102

Kossov, O. A.
PERFORMANCE OF THE SEMICONDUCTOR
SWITCH UNDER VARIOUS LOAD CONDITIONS
(Rabota Poluprovodnikovogo Klyucha pri Razlichnom
Kharaktere Nagruзки). Feb 61 [19]p. 9 refs.
RTS 1635.

Order from LC or SI A m/\$2.40, ph/\$3.30 61-15730

Trans. of Elektrichestvo (USSR) 1959, no. 5, p. 60-65.
Also included in translation available from PP \$14.00.

61-15730

- I. Electric switches--
Performance
- I. Kossov, O. A.
- II. RTS-1635
- III. Department of Scientific
and Industrial Research
(Ot. Brit.)

160949

Office of Technical Services

(Engineering--Electrical, TT, v. 5, no. 10)

Overvoltages After Clearing Phase-To-Phase Faults,
by F. A. Likhachev.

RUSSIAN, per, Elektrichestvo, No 5, 1959,
pp 72-77.

DSIR LLU M.1798
(loan)

Sci - Electricity

Oct 60

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Equivalent Circuits for Testing Circuit-Breakers
on Disconnection of Unloaded Lines, by N. M.
Chernyshev.

RUSSIAN, per, Elektrichestvo, No 6, 1959,
pp 40-47.

DSIR LLU M.1801
(loan)

Sci - Electricity

Oct 60

130,752

Ponomarenko, V. K.
CALCULATING THE MAKING AND RESTRAINING
TORQUES OF AN INDUCTION RELAY (Raschet
Vrashchayushchego i Tormoznogo Momentov
Induktsionnogo Rele) tr. by D. R. H. Phillips:
14 June 60. 20p. (includes foreign text) 3 refs. (not
translated) Trafford Park trans. no. 2688; M2033.
Order from LC or SLA ml\$2.40, ph\$3.30 61-13394

Trans. of Elektrichestvo (USSR) 1959, no. 6,
p. 48-54.

(Engineering--Electrical, TT, v. 5, no. 2)

61-13394

- I. Electric relays--Torque
- I. Ponomarenko, V. K.
- II. ABI TP/T-2688
- III. DSIR LLJ M. 2033
- IV. Associated Electrical
Industries, Ltd. (Gr. Brit.)

142,832

Office of Technical Services

61-15392

Tareyev, B. M. and Lerner, M. M.
 THE CONTINUOUS OXIDATION BY ALTERNATING
 CURRENT OF ANODE FOIL FOR ELECTROLYTIC
 CAPACITORS (Neprepyvnoye Oksidirovaniye
 Peremennym Tokom Anodney Pol'gi dlya Elektro-
 liticheskikh Kondensatorov). Jan 61 [15]p. 7 refs.
 RTS 1664.
 Order from LC or SLA m\$2. 40, ph\$3. 30 61-15392

Trans. of Elektrichestvo (USSR) 1959, no. 6,
 p. 71-76.

Tests showed that dynamic forming of anode foil for
 electrolytic capacitors by ac is best carried out with
 the baths cross-connected. Baths of existing con-
 struction are suitable provided that they are made of
 material not subject to forming (for example, stain-
 less steel grade 1Kh18N9T). The greatest stability of
 forming conditions is achieved when the same foil is
 passed through successive baths connected back to
 back.

(Engineering--Electronic, TT, v. 3, no. 7)

1. Aluminum foils--Oxidation
2. Alternating current--
Applications
3. Anodes--Materials
4. Electrolytic capacitors--
Materials

- I. Tareyev, B. M.
- II. Lerner, M. M.
- III. RTS-1664
- IV. Department of Scientific and
Industrial Research
(Gt. Brit.)

148,750
 MT 57

Office of Technical Services

A Circuit for Obtaining Voltage (Surge) Waves
of Special Form, by A. A. Akopyan. UNCL

RUSSIAN, per, Elektrichestvo, No 6, 1959,
pp 76, 77.

DSIR LIT N.1328

(loan)

Sci - Electron
Apr 60

112,671

The External Reactance of Steel Wires and Bus-Bars,
by V. Savyuk.

RUSSIAN, per, Elektrichestvo, No 6, 1959,
pp 78-80.

300 60-25177
DSIR LLU M.1564
(loan)

Sci - Electricity

Oct 60

128,754

Electric Technology USSR, 1960, Vol III.

RUSSIAN, per, Elektrichestvo, No 7, 1959, pp 3-13,
19-21, 55-57, 81-83.

PP

Sci

Apr 62

Vol IV, No 6

Commutation in Multistage Direct Field Rotary
Amplifiers, by B. P. Tokarev.

RUSSIAN, per, Elektrichestvo, No 7, 1959, pp 13-18.

ELL M. 3353

Sc1 - Electron

Apr 62

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Designing Reactors With a Steel Magnet
Circuit and Air Gaps, by E. A. Man'kin.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 35-41.

REL M.3461

193,800

Sci - Eng

Apr 62

Some Questions on the Methods of Testing High-Voltage Insulation, by V. L. Ivanov, et al.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 61-64.

DSIR LLU M.1996
(loan)

Sci - Electricity

128,891

Oct 60

Main Characteristics of a High-Voltage Cable,
by S. M. Bragin.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 65-70.

DSIR LIU M.1738
(loan)

Sci - Electricity

Oct 60

130,757

Method of Measuring the Restoration of Electrical
Stability in an Air-Quenched Cut-Off Switch, by
V. Guss, Ya. Tsigelka.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 70-72.

DSIR LLU RTS 1498

Sci - Electricity

Oct 60

128,731

Dumitrescu, A., Elefterescu, M., and Kovaci, S.
METHODS OF FORECASTING ENERGY CON-
SUMPTION. [1960] [9]p. 3 refs. C. E. Trans. 1659;
M2322.

Order from LC or SLA m\$1.80, ph\$1.80 61-15464

Trans. of Elektrichestvo (USSR) 1959, no. 8,
p. 26-29.

An analytical method is proposed for the determi-
nation of the dynamics of overall heat and electrical
energy consumption by summation of the energy con-
sumptions in the different branches of the national
economy, the latter being determined on the basis of
the dynamics of the specific, energy consumptions and
the dynamics of production in the given branch of
industry.

(Physics--Electricity, TT, v. 5, no. 11)

61-15464

I. Electrical energy--
Consumption

I. Dumitrescu, A.

II. Elefterescu, M.

III. Kovaci, S.

IV. CE Trans-1659

V. DSIR LLU M.2322

VI. Central Electricity
Generating Board
(Gt. Brit.)

160954

Office of Technical Services

An Analytical Method for Calculating the
External Rating of A.C. Generators
Energized by Permanent Magnets, by
F. F. Galtshev, 16 pp

RUSSIAN, per, Elektrichestvo, No 8, 1959,
pp 30-35.

OTS 77-65-3021
RAT 936
PP

167,858

Sci - Electron

Sep 61

Electric Technology USSR, 1960, Vol III.

Russian, per, Elektrichestvo, No 8, 1959, pp 45-51,
65-69, 73-80.

PP

Sci

Apr 62

Vol IV, No 6

Estimate of the Operational (Wear and Tear)
Reliability of Electromagnetic Mechanisms, by
Ya. A. Raps,

RUSSIAN, per, Elektrichestvo, No 8, 1959,
op 57-52.

9066983

*AEC SCL-T-252

1
pick
up

Sci - *Electron*
~~Electricity~~
Oct. 60

List 43

2/7/60

Geometrical Dimensions and Dielectric Strength
of the Insulation of Segmental Conductors, by
V. P. Shevchenko-Vinogradov.

RUSSIAN, per, Elektrichestvo, No 8, 1959,
pp 69-72.

DSIR LLU M.1790
(loan)

Sci - Electron

Oct 60

130,753

Kachanova, N. A. and Umed'yan, V. V.
PROGRAMMING FOR DIGITAL COMPUTERS, OF
CALCULATIONS FOR ECONOMIC LOAD DISTRIBUTION
IN A POWER SYSTEM. [1960] [10] p. 5 refs.
C. E. Trans. 1645; M2317.
Order from LC or SLA m\$1.80, ph\$1.80 61-15460

Trans. of *Elektrichestvo (USSR) 1959, no. 9, p. 1-5.

151652

(Engineering--Electrical, TT, v. 5, no. 8)

61-15460

1. Electric power production--
Costs
2. Electrical networks--
Synthesis
3. Mathematical computers--
Scheduling
1. Kachanova, N. A.
- II. Umed'yan, V. V.
- III. CE Trans-1645
- IV. DSIR LLU M. 2317
- V. Central Electricity
Generating Board
(Q. Brit.)

Office of Technical Services

Electric Technology USSR, 1960, Vol III.

RUSSIAN, per, Elektrichestvo, No 9, 1959, pp 13-20,
30-35, 72-73.

PP

Sci

Apr 62

Vol IV, No 6

Brush Horse or Single Phase Commutator Motors,
Horse-Power Motors, by N. V. Astakhov.

RUSSIAN, per, Elektrichestvo, No 9, 1959,
pp 46-50.

DSIR LIU RTS 1508

Sci - Engr

Oct 60

130,736

61-15502

Ryabov, B. M.
DETERMINATION OF THE 50% IMPULSE FLASH-
OVER VOLTAGE. [1960] [10]p. 11 refs. C.E. Trans.
1631; M2390.
Order from LC or SLA m\$1.80, ph\$1.80 61-15502

Trans. of Elektrichestvo (USSR) 1959, no. 9, p. 84-88.
Also included in trans. available from PP \$14.00.

The calculation of the necessary number of impulses
applied to the test object for the determination of the
50 percent impulse-voltage with predetermined accu-
racy, is shown.

1. Voltage--Measurement
2. Title: Flashover voltage
- I. Ryabov, B. M.
- II. CE Trans-1631
- III. DSIR LLU M. 2390
- IV. Central Electricity Genera-
ting Board (Gt. Brit.)

160959

Office of Technical Services

(Engineering--Electrical, TT, v. 5, no. 10)

61-12187

ELECTRIC TECHNOLOGY U. S. S. R., 1960,
VOL. 4, P. 505-673. Nov 60, 1v.
Order from IT \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1959, no. 10, p. 21-33,
43-45, 56-62; no. 11, p. 27-31, 41-43, 56-60, 81;
no. 12, p. 10-13 and 47-61. Abstracts are included of
the papers which are not translated in full and also
abstracts from nos. 3-5.

Consists of articles by V. S. Baryayev, M. P. Karamev,
G. M. Kasprzhak, I. P. Kopylov, L. V. Maziya, S. A.
Misyagina, V. A. Naydis, M. N. Osokin, Ya. N. Shtrafun,
N. S. Syunov, I. D. Urusov, and V. V. Yukhov.

(Engineering--Electrical, TT, v. 5, no. 3)

1. Electrical engineering--USSR
2. Electrical engineering--
Periodicals
1. Pergamon Press, Inc.,
New York

142,938

Office of Technical Services

Urusov, I. D. and Podrez, V. M.

MODEL TESTS FOR DETERMINING THE RIGIDITY
AND VIBRATION RESISTANCE OF ELECTRICAL
STATOR FRAMES (Rizicheskoye Modellirovaniye
Zhestkosti i Vibroytochivosti Korpusa Statora
Elektrorashiny). Feb 61 [10] p. 3 refs. RTS 1609.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15916

Trans. of Elektrichestvo (USSR) 1959, no. 10, p. 43-47.
Also included in translation available from PP \$14.00.

The rigidity and resistance to vibration of stator frames
in large turbogenerators can be determined by means of
model tests. This was confirmed by comparing the re-
sults obtained on models and on large scale steel mock-
ups of sections of the full scale frames. The error does
not exceed 5%. Considerable divergence exists between
the calculated and experimental rigidity and natural fre-
quency values of frames with apertured transverse
annular walls, the experimental values being smaller.
The physical nature of the stress distribution was
(Engineering-Electrical, TT, v. 5, no. 10) (over)

61-15916

1. Turbine stators--Model
test results

2. Turbine stators--
Mechanical properties

1. Urusov, I. D.

II. Podrez, V. M.

III. RTS-1609

IV. Department of Scientific
and Industrial Research
(Gr. Brk.)

160943

Office of Technical Services

Electric ~~EM~~ Drive for the Screw of the Atomic
Ice-breaker, by V. I. Bershadski.

RUSSIAN, per, Elektrichestvo, No 10, 1959,
pp 50-56.

NIL M. 3543

4. 5. 1959

inst. 10/100

201,015

Sci - Engr

Jun 62

Distortion of the Characteristics of Electric
Motors Having a Wide Range of Speed, by
I. Z. Ageev.

RUSSIAN, per, Elektrichestvo, No 11, ^{VI}1959,
pp 52-56.

RAE 914

167,487

Sci - Engr

Sep 61

OTS TF-63-24310

Application of the Potential Blocking Method
in an Electric-Shock Prevention System, by V. A.
Bun'ko, et al.

RUSSIAN, per, Elektrichestvo, No 11, 1959,
pp 76, 77.

*ABC

Sci - Electron
Apr 60

Inform. re. STD London
Re EO-59/11.17

Utilization Factor of Transformer Load Curves,
by L. M. Shnitser,

RUSSIAN, per, Elektrichestvo, No 11, 1959,
pp 88-90.

L. M. Shnitser
*AEC

Sci -
Apr 60

Possible Lines of Development for Automatically
Regulated Turbo-Generator Excitation Systems, by
Ya. N. Shtrafun.

RUSSIAN, per, Elektrichestvo, No 12, 1959, pp 10-13

NLL M. 2660

Sci - Engr

Nov 61

174,426

Krochakovich, V. D.
DURATION OF TRANSIENTS IN THREE-PHASE
BRIDGE RECTIFIER CIRCUITS (Dlitel'nost'
Perelichodnykh Protseessov v Tressyakh s Trekhfaznyymi
Mostovymi Vypryamkelyami). Mar 61 [7] p. 3 refs.
RTS 1771.
Order from LC or SLA m\$1.80, ph\$1.80 61-19136
Trans. of Elektrichestvo (USSR) 1959, no. 12,
p. 61-63.

61-19136

1. Rectifiers--Circuits
2. Wiring diagrams--Transients
3. Transients--Life expectancy
1. Krochakovich, V. D.
- II. RTS-1771
- III. Department of Scientific and
Industrial Research
(Ct. Brit.)

160980

Office of Technical Services

(Engineering--Electrical, TT, v. 5, no. 10)

Reactions on Surge Diverters With Reduced
Breakdown Voltage During Internal Over Voltages,
by D. V. Shisman.

RUSSIAN, per, Elektrichestvo, No 12, 1959,
pp 68-69.

NLL M. 2662

61-23265

Sci - Electron

173,973

Nov 61

61-12903

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 5,
Dec 60, 169p.

Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 1, p. 1-5,
27-37, 43-47; no. 2, p. 9-24, 53-57; no. 3, p. 20-24,
30-33, 48-55, 73-74. Abstracts are included of the
papers which are not translated in full.

Contents:

The tasks of the electrical engineering industry, by
N. I. Borisenko

Optimum control systems for the flying shears drive
in a rolling mill, by S. M. Domanitskiy

Transient processes in automatic step chronometric
control of electric rolling stock, by B. P. Petrov

A new method of testing the rupturing capacity of high
voltage circuit breakers, by A. I. Balakin

A digital programme control system for a large lathe,
by I. L. Shapiro and others

Self-aligning system for automatic control of welding
(Engineering--Electrical, TT, v. 5, no. 9) (over)

1. Electrical engineering--
USSR
2. Electrical engineering--
Periodicals
1. Pergamon Press, Inc.,
New York

Office of Technical Services

(NY-2900/9)

The Tasks of the Electrical Engineering Industry,
by N. I. Borisenko, 11 pp.

RUSSIAN, per, Elektrichestvo, No 1, 1960, pp 1-5.

JPRS 2969

USSR

Econ - Technological

Jul 60

121,485

Sysocv, M. I.
IMPULSE STRENGTH OF AIRFILLED SWITCHGEAR.
[1961][11]p. 5 refs. C. E. Trans. 1701; [DSIR LLU]
M. 2825.

Order from OTS or SLA \$1.60

61-23250

Trans. of ~~Elektrichestvo~~ (USSR) 1960, no. 1, p. 63-68.

DESCRIPTORS: *Electric switches, Compressed air,
Electric potential, Voltage.

See also 59-22496

(Engineering--Electrical, TT, v. 6, no. 8)

61-23250

I. Sysocv, M. I.
II. CE Trans-1701
III. DSIR LLU M. 2825
IV. Central Electricity
Generating Board
(Ct. Brk.)

150180

Office of Technical Services

Re-Synchronization of Synchronous Generators, by
M. G. Portnoy.

RUSSIAN, per, Elektrichestvo, No 1, 1960, pp 73-78.

MLL M. 3332

Sci - Electron

Apr 62

191,926

38/42/70-1000

Modern Ideas on the Breakdown of Dielectrics,
by G. I. Skanavi.

RUSSIAN, per, Elektrichestvo, No 2, 1960,
pp 1-8.

NEL M. 2661

Sci Electron

Nov 61

173,974

(DC-6571)

A Self-Adjusting System of Automatic Control of
Electric Pipe-Welding Mills, by A. B. Chelyustkin,
V. A. Ivanov, 26 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1960, pp 13-18.

JPRS 12929

Sci - Electricity
Mar 62

187,559

071 51-201-5

A Physical Model of the Constant Current Electric Power Transmission System from Stalingrad GHE-Donbass, by V. V. Voskresenski and Kh. F. Barakayev.

RUSSIAN, per. Elektrichestvo, No 2, 1960, pp 28-35.

NIL RTS 2384

Sci-Engr
Nov 67

345,256

Synchronising Gear for a Synthetic Circuit
for Testing Circuit-Breakers for Breaking
Capacity, by M. M. Chernishev, V. D. Lyashenko.

RUSSIAN, per, Elektrichestvo, No 2,
1960, pp 53-57.

CSIRO

Sci - Electricity
Jun 62

203,361

Equivalent Circuit and ~~XXXX~~ Precise Circle Design
for a Synchronous Reactance Motor, by O. B.
Pevzner.

RUSSIAN, per, Elektrichestvo, No 2, 1960,
pp 64-68.

MLL M. 3548

201,028

Sci - Engr
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Statistical Method of Selecting the Voltage
in Tests for Breaking Capacity of Circuit
Breakers, by V. V. Kaplan, et al.

RUSSIAN, per, Elektrichestvo, No 2,
1960, pp 69-73.

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61-28190

Zaleskii, A. M., Moliseev, M. B., and Popova, E. G.

TEMPERATURE RISE ON CURRENT-CARRYING PARTS OF ELECTRICAL EQUIPMENT. [1961] [9]p. 2 refs. C. E. Trans. 1935; [DSIR LLU] M. 4018. Order from: OTS or SLA \$1.10 61-28190

Trans. of Elektrotekhnika (USSR) 1960, no. 2, p. 73-77.

DESCRIPTORS: Generators, *Electrical equipment, *Junction boxes, Electric connectors, Electric currents, Design, Temperature, Voltage, Flanges, Conductors, Heat transfer

An investigation by the Leningrad Polytechnic Institute, named after Kalinin showed that with currents of 6 to 12 k amp and above, the box section with flanges turned inwards is the most efficient shape for current (Engineering--Electrical, TT, v. 6, no. 12) (over)

- I. Zaleskii, A. M.
- II. Moliseev, M. B.
- III. Popova, E. G.
- IV. CE Trans-1935
- V. DSIR LLU M. 4018
- VI. Central Electricity Generating Board (G. Brit.)

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(NY-2900/11)

Conference on the Utilization of Power
Semiconductor Rectifiers in Industrial Enterprises
and in Transport, by V. A. Naydis, 5 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1960, pp 89, 90.

JPRS 5308

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158, 245

The Use of Analogue Computers for Studying
Transients in Electrical Systems, by I. A. Gruzdev,
M. L. Levinshstein.

RUSSIAN, per, Elektrichestvo, No 3, 1960, pp 1-13.

MLL M. 3014

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Feb 62

186, 905

High-Speed Differential Relay Protection Using
Semiconductors, by G. T. Grek.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 14-20.

MLL M. 3474

Sci - Electron

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Vilesov, D. V. and Ryablin, I. A.
CHOIX DES PRINCIPAUX PARAMÈTRES DES
CIRCUITS D'EXCITATION DES GÉNÉRATEURS
SYNCHRONES À AUTOEXCITATION (How to Select
the Basic Parameters of Excitation Systems for Self-
excited Synchronous Generators). 18p. 5 refs.
CNRS-X 542
Order from OTS, ETC or CNRS \$0.80 TT-62-28111

Trans. in French of Elektrichestvo (USSR) 1960,
no. 3, p. 20-24.
Another trans. is available in French from PP \$14.00
in Electric Technology USSR, v. 5.

DESCRIPTORS: Generators, Circuits, Starting,
Automatic, Phase transformers, Theory.

(Engineering--Electrical, TT, v. 11, no. 7)

TT-62-28111

I. Vilesov, D. V.
II. Ryablin, I. A.
III. CNRS-X542
IV. Centre National de la
Recherche Scientifique,
Paris.

Office of Technical Services

63-12217

Okhremenko, N. M.
ELECTROMAGNETIC PHENOMENA IN FLAT-TYPE
INDUCTION PUMPS FOR MOLTEN METAL. Sep 62
[7]p. 12 refs.
Order from ARS in its Journal, v. 32, no. 9, \$3.00

Trans. of Elektrichestvo (USSR) 1960, no. 3, p. 48-54.

DESCRIPTORS: *Electromagnetic pumps, Inductance,
Pumps, Induction motors, Liquid metals, *Liquid metal
pumps, Design.

(Physics--Electricity, TT, v. 9, no. 1)

- I. Okhremenko, N. M.
- II. American Rocket Society,
New York
- III. Primary Sources, New York

Office of Technical Services

Free Vibrations of a Coil, by L. Genov.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 55-59.

MLL M. 3545

Sci - Engr
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Biber, L. A.
ERRORS IN GALVANOMETERS APPLIED AS
INTEGRATORS. 19p 3refs.
Order from OTS, SLA, or ETC: \$1.60 TT-64-16567

Trans. of Elektrichestvo (USSR) 1960, no. 3, p. 77-81.

TT-64-16567

I. Biber, L. A.

(Engineering--Electrical, TT, v. 12, no. 3)

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Method of Conducting Transient Stability Studies on
Analogue Computers, by V. S. Tarasov, et al.

RUSSIAN, per, Elektrichestvo, No 4, 1960, pp 7-12.

MLL M. 3013

Sci

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Pistrak, A. I. and Balabuev, L. M.
ELEKTRONISCHE ERREGUNG FÜR MASCHINEN IM
HAUPTANTRIEB VON UMKEHRWALZWERKEN (Elec-
tronic Energization for Machines in the Main Gear of
Reversing Mills). 19p.
Order from TIB \$2.95

Trans. In German of Elektrichestvo (USSR) 1960, no. 4,
p. 13-20.

DESCRIPTORS: *Electronics, Machines, *Gears,
Rolling mills.

(Engineering--Electrical, TT, v. 10, no. 8)

- I. Pistrak, A. I.
- II. Balabuev, L. M.
- III. Technische Informations-
bibliothek, Hannover
(West Germany)

Office of Technical Services

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ELECTRIC TECHNOLOGY U.S.S.R., 1960. VOL. 6.
P. [171]-332. Jan 61, 1v.
Order from PP \$14.00, \$56.00/year

Trans. of Elektrichestvo (USSR) 1960, no. 4, p. 21-26,
47-51, 57-63, 70-72; no. 5, p. 13-15, 31-36, 60-66,
73-76; and no. 6, p. 14-16, 21-25, 29-38, 69-70.
Abstracts are included of the papers which are not
translated in full and also abstracts from no. 7.

Contents:

A reversing scheme for automatic speed control using
electromagnetic powder clutches, by T. A. Glazenko

Automatic device for load distribution in power sys-
tems, by S. V. Uslov and others

Investigation of the extinction processes in a free A. C.
arc, by I. S. Tayev

Calculating transient processes in linear circuits by
recurrence formulae, by N. S. Kochanov

An improved system of arc excitation in mercury arc
(Engineering--Electrical, TT, v. 5, no. 9) (over)

1. Electrical engineering--
USSR
2. Electrical engineering--
Periodicals
1. Pergamon Press, Inc.,
New York

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Determination of Transient Processes in
Alternating Current Machines by Means of Frequency
Characteristics, by E. Ya. Kazovskiy, 1960

RUSSIAN, per. Elektrichestvo, No 4, 1960, pp 30-37.

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OT 77-6-245-27

HAE 9kt

AEC 283-6-
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Choice of Differential Equations of Transient
Processes of a Synchronous Generator When
Investigating Dynamic Stability Using
Computers, by B. M. Kagan, E. L. Urman, 12/p.

RUSSIAN, per, Elektrichestvo, No 4, 1960,
PP 37-42. 7099094

OTS 77-63-24751

RAE 957

M. 5018

181, 297

Sci. - Electro

SAIP-61-6451

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HAE-615-62

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AEI TP/T-2899

The Quenching of an Open Arc, by A. S. Maikopar,

RUSSIAN, per, Elektrichestvo, No 4, 1960,
pp 64-65.

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Aleksandrov, G. N.
THE INFLUENCE OF CORONA ON VOLTAGE
SURGES UNDER TRANSIENT OPERATING CON-
DITIONS ON TRANSMISSION LINES. [1961] [15]p.
9 refs. C. E. Trans. 1777; [DSIR LLU] M. 3296.
Order from OTS or SLA \$1.60 61-27609

Trans. of Elektrichestvo (USSR) 1960, no. 5,
p. 6-13.

DESCRIPTORS: *Electrical corona, Electrical
effect, *Voltage, *Transmission lines, Transients.

Equations are derived that provide an evaluation of the
drop in the surge on power lines due to the corona
effect at the first rise in the voltage on the basis of
data obtained by calculating transient processes without
taking the corona effect into consideration. The equa-
tion can also be used for introducing a correction for
(Engineering--Electrical, TT, v. 6, no. 9) (over)

61-27609

I. Aleksandrov, G. N.
II. CE Trans-1777
III. DSIR LLU M. 3296
IV. Central Electricity
Generating Board

185609

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Electromagnetic Pumps for Liquid Metals, by A. I.
Vol'dek.

RUSSIAN, per, Elektrichestvo, No 5, 1960,
pp 22-27.

WLL M. 6321

Sci - Electron

Nov 62

CEGB 2462

Electromagnetic Pumps for Liquid Metals, by A. I.
Vol'dek.

RUSSIAN, per, Elektrichestvo, No 5, 1960,
pp 22-27.

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POMPES ELECTROMAGNETIQUES POUR LES METAUX
LIQUIDES. (Electromagnetic Pumps for Liquid
Metals). A. I. Vold'ek. Translated into
French from Elektrichestvo, No. 5, 22-11(1960).
22p.

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Electromagnetic Calculations of Direct
Current Machines Taking Into Account
the Cooling of the Windings, by N.
A. Panfilov.

RUSSIAN, per, Elektrichestvo, No 5,
1960, pp 50-53.

ILL M.3322

Sci - Electricity

Feb 62

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The Influence of Power Factor Improvement on Load
Stability, by V. A. Venikov, 7 pp.

RUSSIAN, per, Elektrichestvo, No 6, 1960, pp 6-10.

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Aug 63

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Kostenko, M. P., Kazovskii, E. Ya., and
Danilevich, Ya. B.

EXPERIMENTAL INVESTIGATION OF NEW METH-
ODS OF DETERMINING THE PARAMETERS OF
A.C. MACHINES. [1961] 7p. 3 refs. C.E.

Trans. 1874; [DSIR LLJ] M.3297.

Order from OTS or SLA \$1.10

61-27608

Trans. of *Elektrichestvo* (USSR) 1960, no. 6,
p. 14-16.

Also included in trans. available from PP \$14.00.

DESCRIPTORS: *Electric machinery, Frequency,
Test methods, Transients, Alternating current.

The new methods for the experimental investigation of
machine parameters were quite simple and gave satis-
factory results, especially in the calculation of tran-
sient processes of machines with massive elements, in
which an essential factor is the current displacement.
(Author)

61-27608

- I. Kostenko, M. P.
- II. Kazovskii, E. Ya.
- III. Danilevich, Ya. B.
- IV. CE Trans. 1874
- V. DSIR LLJ M.3297
- VI. Central Electricity
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(Engineering--Electrical,
TT, v. 6, no. 9)
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INVESTIGATION OF THE IGNITION OF A SECTIONALISED
HIGH-VOLTAGE VALVE, BY N. M. MASLENNIKOV. *Epp*

RUSSIAN, PER, ELEKTRICHESTVO, NO 6, 1960,
PP 25-29.

SCI - ELECTRICITY

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NLL M. 6013

OTS 62-25924

*Reverse Trans to German
by TIE*

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On the Operational Reliability of Tele-
mechanics Devices, by N. S. Simbalin, 6 pp.

RUSSIAN, per, Elektrichestvo, No 6, 1960,
pp 91-93. 9672013

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18 Dec 61

(NY-7030)

Tasks in Improving the Quality of
Electrical Steels and Alloys, by
A. M. Samarin, 8 pp.

RUSSIAN, per, Elektrichestvo, No 7,
1960, pp 1-4.

JPRS 13429

Sci - Electricity

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I. Pergamon Press, Inc.,
New York

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 7,
P. 333-484. Feb 61, Iv.
Order from PP \$14.00, \$56.00/year

Trans. of ~~Elektrichesvo~~ (USSR) 1960, no. 7, p. 11-25,
61-65; no. 8, p. 36-39, 51-67; no. 9, p. 23-29, 38-45,
49-52. Abstracts are included of those papers which
are not translated in full.

DESCRIPTORS: *Electrical engineering, *Electrical
equipment, Electromagnetic drives, Rolling mills,
Grinders, Computers, Current regulators, Capacitors,
Nonlinear systems, Power transformers, Turbines,
Electric motors.

Contents:

New electrical drives for continuous cold rolling mills,
by P. F. Olefir
(Engineering--Electrical, TT, v. 10, no. 5) (over)

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S-82/61

(NY-5914).

Use of an Electronic Computer in the Study of a
Gyropilot, by I. R. Freydzon,

RUSSIAN, per, Elektrichestvo, No 7, 1960, pp 20-25.

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Sci - Eng

27 Feb 61

On the Theory of Electric Power Control of
Ore-Treating Electric Furnaces, by V. S.
Lerner.

RUSSIAN, per, Elektrichestvo, No 7, 1960,
pp 25-30.

NLL M 8900

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